## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1 1-15 (Canceled)
- 1 16. (Currently amended) A dental data input system comprising:
- 2 a handle, said handle being generally cylindrical, the diameter of said
- 3 handle being much smaller than the length of said handle, said handle being
- 4 configured to be held between the thumb and first and second fingers of a
- 5 dental examiner's hand;
- 6 a discoid head rigidly attached to a first end of said handle, said head
- 7 including a data input device, said head being configured to be generally flat
- 8 and thin with a largest dimension of approximately 2.5 centimeters, said
- 9 discoid head having first and second parallel flat surfaces on opposite sides
- 10 of said head and a circumferential surface; and
- an intraoral data input tool including:
- 12 <u>a rigid pan having a bottom surface and a side wall around the</u>
- 13 periphery of said bottom surface;
- a handle rigidly attached to said side wall of said pan;

a circuit board positioned within said pan, said circuit board 15 including a data input device; 16 a mirror positioned centrally within said pan; 17 a cover positioned over said circuit board, said cover being 18 configured to hermetically seal said circuit board within said pan; and 19 20 a stylus; 21 wherein said data input device is responsive to force applied by said stylus, and said intraoral data input tool is configured to allow a dental 22 examiner to input data using said stylus on said data input device when said 23 data input device is comfortably positioned at least partially within a patient's 24 mouth, and said handle is rigidly attached to said circumferential surface. 25 17. (Original) A dental data input system as in claim 16 wherein said stylus 1 2 is a dental probe. 18. (Original) A dental data input system as in claim 16 further comprising a 1 controller with an operating program, said controller being linked to said 2 3 intraoral data input tool by a communication means. (Original) A dental data input system as in claim 18 wherein said 1 19. 2 communication means comprises an electrical cable.

Appl. No. 10/817,055

Amendment dated Sept. 13, 2007

- 1 20. (Original) A dental data input system as in claim 18 wherein said
- 2 communication means is a wireless communication means.
- 1 21. (Original) A dental data input system as in claim 18 wherein said
- 2 operating program includes a routine for periodontal examination.
- 1 22. (Original) A dental data input system as in claim 18 wherein said
- 2 operating program includes a routine for dental charting.
- 1 23. (Original) A dental data input system as in claim 18 further comprising:
- a display electrically connected to said controller; and
- a keyboard electrically connected to said controller.
- 1 24. (Original) A dental data input system as in claim 18 further comprising a
- 2 voice synthesizer electrically connected to said controller.
- 1 25. (Original) A dental data input system as in claim 18 further comprising
- 2 an auxiliary input device electrically connected to said controller.
  - 26-49 (Canceled)
- 1 50. (Previously presented) A dental data input system as in claim 17 wherein
- 2 said stylus includes a graduated end for periodontal probing.

- 1 51. (Previously presented) A dental data input system as in claim 50 wherein
- 2 said stylus includes a knee adjacent to said graduated end, said stylus being
- 3 configured to allow data input with said knee.
- 1 52. (Previously presented) A dental data input system as in claim 17 wherein
- 2 said stylus includes a graduated end configured for periodontal probing and a
- 3 second end configured for use in data input.
- 1 53. (Previously presented) An intraoral data input tool for use during dental
- 2 examination of a patient, said tool comprising:
- a rigid pan having a bottom surface and a side wall around the
- 4 periphery of said bottom surface;
- 5 a handle rigidly attached to said side wall of said pan;
- a circuit board positioned within said pan, said circuit board including
- 7 push buttons and a display;
- 8 a mirror positioned centrally within said pan; and
- a cover positioned over said circuit board, said cover being configured
- 10 to hermetically seal said circuit board within said pan;
- wherein said push buttons are responsive to force applied by a stylus,
- 12 and wherein said intraoral data input tool is configured to allow a dental
- 13 examiner to input data using said stylus when said pan is comfortably
- positioned at least partially within said patient's mouth.

- 1 54. (Previously presented) The intraoral data input tool of claim 53 further
- 2 comprising a platform with push buttons, said platform being rigidly attached
- 3 to said tool at the position where said handle is attached to said side wall of
- 4 said pan.
- 1 55. (Previously presented) The intraoral data input tool of claim 53 wherein
- 2 said circuit board has a central cutout, said mirror is positioned within said
- 3 central cutout of said circuit board, said cover is positioned over said mirror
- 4 and said circuit board, and said cover is configured to hermetically seal said
- 5 circuit board and said mirror within said pan.
- 1 56. (Previously presented) The intraoral data input tool of claim 53 wherein
- 2 said mirror is positioned over said circuit board and said mirror has apertures
- 3 for said push buttons and said display, said cover is a gasket positioned
- 4 between said circuit board and said mirror, said gasket hermetically sealing
- 5 all of said apertures in said mirror and hermetically sealing said mirror to the
- 6 periphery of said pan.
- 1 57. (New) An intraoral data input tool of claim 53 wherein said handle is
- 2 generally cylindrical, the diameter of said handle being much smaller than the
- 3 length of said handle.

- 1 58. (New) An intraoral data input tool of claim 53 wherein said rigid pan is
- 2 discoid.
- 1 59. (New) An intraoral data input tool of claim 58 wherein said discoid
- 2 rigid pan has a diameter of approximately 2.5 centimeters.
- 1 60. (New) The intraoral data input tool of claim 53 further comprising an
- 2 extrusion rigidly attached to the perimeter of said rigid pan, positioned
- 3 diametrically opposite to said handle, said extrusion extending radially from
- 4 said rigid pan, said extrusion being configured to allow said dental examiner
- 5 to place one or more fingers of said examiner's stylus bearing hand against
- 6 said extrusion to provide extra stability when inputting data with said stylus.
- 1 61. (New) The intraoral data input tool of claim 53 wherein each of said
- 2 push buttons has a top surface area in the range of 1 to 2 square millimeters.
- 1 62. (New) The intraoral data input tool of claim 53 wherein said circuit board
- 2 further includes a touch sensitive display.
- 1 63. (New) The intraoral data input tool of claim 53 wherein said push
- 2 buttons are located peripherally about said mirror.

Amendment dated Sept. 13, 2007

- 1 64. (New) The intraoral data input tool of claim 53 wherein said display is a
- 2 touch sensitive display.
- 1 65. (New) The intraoral data input tool of claim 53 further comprising a
- 2 translucent disposable cover.
- 1 66. (New) The intraoral data input tool of claim 65 further comprising a
- 2 clamp configured to keep said disposable cover conformal with the surface of
- 3 said mirror.
- 1 67. (New) The intraoral data input tool of claim 66 wherein said clamp is a c-
- 2 clamp and said rigid pan is discoid with a concave side wall, said concave
- 3 side wall retaining said c-clamp.
- 1 68. (New) The intraoral data input tool of claim 53 further comprising a
- 2 wireless communication device contained within said handle, said
- 3 communication device being electrically connected to said circuit board.
- 1 69. (New) The intraoral data input tool of claim 53 further comprising:
- an electrical connector attached to the opposite end of said
- 3 handle from said rigid pan; and
- 4 an electrical cable connecting said electrical connector to said
- 5 circuit board.

- 1 70. (New) The intraoral data input tool of claim 53 wherein said stylus is a
- 2 dental probe.
- 1 71. (New) The intraoral data input tool of claim 53 wherein the length of said
- 2 handle is approximately 13 centimeters.
- 1 72. (New) The intraoral data input tool of claim 53 wherein the diameter of
- 2 said handle is smaller than the length of said handle, the rigid pan is discoid
- 3 and has a flat bottom surface, and the long axis of said handle is in a plane
- 4 containing a diameter of said discoid pan.
- 1 73. (New) The intraoral data input tool of claim 72 wherein said plane is
- 2 perpendicular to said flat bottom surface of said rigid pan.
- 1 74. (New) An intraoral data input tool for use during dental examination of a
- 2 patient, said tool comprising:
- a rigid pan having a bottom surface and a side wall around the
- 4 periphery of said bottom surface;
- 5 a handle rigidly attached to said side wall of said pan;
- a circuit board positioned within said pan, said circuit board including
- 7 push buttons, a display, and a touch sensitive display; and

- a cover positioned over said circuit board, said cover being configured to hermetically seal said circuit board within said pan;
- wherein said push buttons and said touch sensitive display are responsive to force applied by a stylus, and wherein said intraoral data input tool is configured to allow a dental examiner to input data using said stylus when said pan is comfortably positioned at least partially within said patient's mouth.
  - 1 75. (New) The intraoral data input tool of claim 74 wherein said bottom
  - 2 surface of said rigid pan includes a mirror.
  - 1 76. (New) The intraoral data input tool of claim 75 wherein the diameter of
  - 2 said handle is smaller than the length of said handle, the rigid pan is discoid
  - 3 and has a flat bottom surface, and the long axis of said handle is in a plane
  - 4 parallel to the plane containing the flat bottom surface of said discoid pan.
  - 1 77. (New) The intraoral data input tool of claim 74 wherein the diameter of
  - 2 said handle is smaller than the length of said handle, the rigid pan is discoid
  - 3 and has a flat bottom surface, and the long axis of said handle is in a plane
  - 4 containing a diameter of said discoid pan.

Appl. No. 10/817,055 Amendment dated Sept. 13, 2007

- 1 78. (New) The intraoral data input tool of claim 74 wherein said touch
- 2 sensitive display covers most of the top surface of the head of said intraoral
- 3 data input tool.
- 1 79. (New) The intraoral data input tool of claim 78 wherein said touch
- 2 sensitive display has a mirror-like surface.